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FILM SEMICONDUCTOR THIN-**AMORPHOUS** (54) METHOD OF FORMING

(57) Abstract:

decomposition of a silane compound a substrate by the thermal semiconductor thin-film is formed onto PURPOSE: To improve stability to compound gas. and the thin-film formed is exposed to repeating the operation in which a light irradiation remarkably by the plasma of a non-depositing reactive

monosilane, disilane and trisilane are general formula SinH2n+2 (N as a raw material gas is shown by of repetition is twice or more. The gas, but it is desirable that the number shaped is exposed to the plasma of a semiconductor thin-film. A plasma decomposed, thus forming a particularly favorable on handling. represents a natural number), and upper limit of the number of repetition plasma treatment of the non-depositing non-depositing reactive compound gas treatment process in which a thin-film Such a raw material gas is thermally CONSTITUTION: A silane compound less are used. times or less, preferably 200 times or is not limited particularly, but 1000 the operation of film formation film thickness is acquired by repeating is executed successively. A specified through thermal decomposition and the

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